

PHILIP MORRIS  
U.S.A.  
INTER-OFFICE CORRESPONDENCE  
RICHMOND, VIRGINIA

To: Dr. T. S. Osdene  
From: J. L. Charles  
Subject: Carbon Monoxide Analyzer

Date: March 21, 1975

14150  
SP-1  
You requested information about an instrument for measuring carbon monoxide that could be operated by technically untrained people. I have talked with Mr. James Hamilton of Sci Tech Corporation and a Wilks Miran 101 infrared instrument seems appropriate.

The Miran 101 is a 17-pound portable, battery operated, fixed wavelength, single beam infrared spectrophotometer with a 14.25 meter gas cell with a 5-liter capacity and a self-contained sampling system that pumps 25-30 liters per minute. Sensitivity is 1 ppm. Readout is direct by meter with linear absorbance so that a scale of 0-35 ppm CO could be attached to the meter for direct readout of ppm CO after calibration. If a permanent record were needed the instrument is equipped with a jack for a 1 volt strip chart recorder.

The Miran 101 is in the final stages of production and should be available in 1-2 months. The price is \$2,995.

The instrument is designed for use in meeting OSHA requirements and the manufacturer is interested in having the instrument used to monitor CO. For this reason, we may be able to get preferred status when ordering. We have Miran instruments in use at PM R&D and have no reason to believe that this instrument will not be satisfactory for this application.

JLC/mro

*JL Charles*

Don Hoel:

Please advise us if you want us to do any more on this idea.

*H. Wake*

Mailed 3-21-75

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